



Pervasive Impact of Contamination Analysis Automation (CAA)

Impact	Examples
IMMEDIATE CUSTOMERS	<ul style="list-style-type: none"> • 60K EPA Superfund sites • 22K State-funded sites • 7.2K DoD sites • 2.4K Resource Conservation and Recovery ACT (RCRA) sites • 100 DOE sites
JOB GROWTH	<ul style="list-style-type: none"> • Environmental Site Remediation <ul style="list-style-type: none"> - Projected to increase from 3.5M jobs to 5-6.9M jobs by the late 1990s. • Environmental Testing <ul style="list-style-type: none"> - Projected to increase from 390K jobs to 530-640K jobs by the late 1990s. • Lab Automation Production <ul style="list-style-type: none"> - Will create 5K new jobs by the late 1990s.
COST SAVINGS	<ul style="list-style-type: none"> • Improves characterization accuracy <ul style="list-style-type: none"> - Currently, 30% of all analyses must be rerun because of operator errors. • Reduces turnaround time for sample analyses from 90-120 days to 1-5 days. • Cuts the cost of analyses by 1/3. <ul style="list-style-type: none"> - CAA would save the DOE/DoD over \$450M per year for organic analyses alone.
PROFITS TO INDUSTRY	<ul style="list-style-type: none"> • Will generate over \$1.5 billion in sales over the next 10 years.
U.S. COMPETITIVENESS	<ul style="list-style-type: none"> • Supports U.S. lead in the analytical instrument market.
LABORATORY SAFETY	<ul style="list-style-type: none"> • Improves lab safety by limiting worker exposure to samples.
WASTE REDUCTION	<ul style="list-style-type: none"> • Reduces laboratory waste.
FUTURE APPLICATIONS	<ul style="list-style-type: none"> • Process monitoring for industrial control. • Compliance monitoring for manufacturing industries. • Improved testing for pharmaceutical companies.

For further information, please contact: Mosiac
Pages: <http://eclipse.esa.lanl.gov/CAA> and

Robert Hollen

CAA Coordinator
Los Alamos National Laboratory
(505) 667-3186
hollen@lanl.gov

Tracy Erkkila

Alternate CAA Coordinator
Los Alamos National Laboratory
(505) 665-2754
erkkila@lanl.gov

John Condren, Vice-President

SciBus Analytical, Inc.
(408)734-2100

Bruce Erdal

Technical Program Manager
EM Program Office
Los Alamos National Laboratory
(505) 667-5338
erdal@lanl.gov

Linton W. Yarbrough

DOE Headquarters Manager
Office Of Technology Development
(301) 903-7457
linton.yarbrough@em.doe.gov

SciBus Analytical, Inc.



Los Alamos
NATIONAL LABORATORY



University of Florida
University of Tennessee
University of Texas

LALP-95-41
April 1995

Los Alamos National Laboratory, an affirmative action/equal opportunity employer, is operated by the University of California for the U.S. Department of Energy under contract W-7405-ENG-36.

All company names, logos, and products mentioned herein are registered trademarks of their respective companies. Reference to any specific company or product is not to be construed as an endorsement of said company or product by the Regents of the University of California, the United States, the U.S. Department of Energy, nor any of their employees.

Los Alamos
NATIONAL LABORATORY

Los Alamos, New Mexico 87545

A U.S. DEPARTMENT OF ENERGY
LABORATORY